Headquarters U.S. Air Force

Integrity - Service - Excellen ce





3 Sep 03
To AMC LRC





The Logistics Mission

What We Do:

- Get the force to the fight
- Keep the force in the fight
- Prepare the force for the next fight
- The Effect We Produce
 - Providing the right stuff, at the right time and place—<u>every time</u>

Global Expeditionary Operations for the 21st Century





Why We Need to <u>Transform AF Logistics</u>

- Logistics must evolve with global operational doctrine & CONOPS
- Current processes are NOT broken, but we can do <u>SIGNIFICANTLY</u> better
 - Operational Performance
 - Affordability
- Improvements limited by current business and IT architecture
 - Must change the underlying model / foundation
- Requires revolution in thinking and action
 - Cross organization/functional, enterprise wide integration
 - Benchmarks and tools readily available

We've reached the fork in the logistics road!



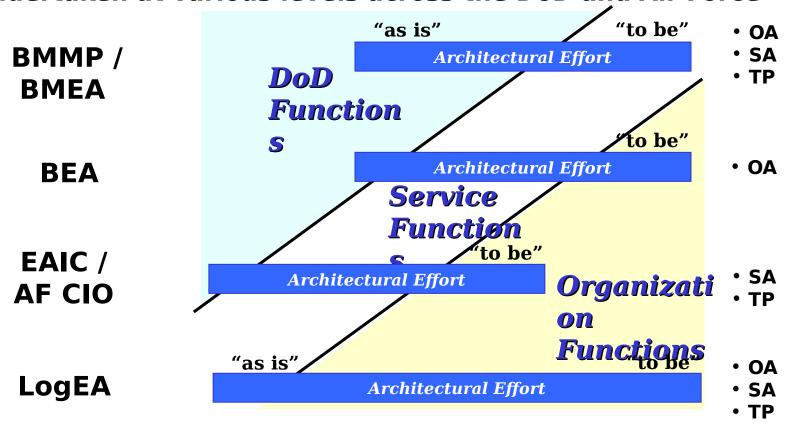
Current AF Logistics Environment

- Disparate on-going initiatives
 - All are moving toward good goals, but the goals are not common goals (puzzle pieces)
 - Improved Wing Logistics CLR/CWO, Sep 99
 - Improved Parts Availability Spares Campaign, Feb 01
 - Modern, Viable Depots DMRT, Jul 01
- No comprehensive plan for integration
 - No common awareness or understanding of corporate goals and how initiatives must integrate to meet these goals
- No discipline
 - Individual stake-holders are unwilling to wait for or buy into the common framework - counterproductive activity arises
- Existing Architectural direction and efforts at DoD and AF level
 - Multiple architectures are being developed at the OSD level, AF level, Command Level, and Air Staff level



Current EA Environment

At present, there are myriad architecture efforts being undertaken at various levels across the DoD and Air Force



Each addresses various aspects of logistics, and approaches enterprise architecture from a different perspective



Overarching AF Transformation

- Continue to aggressively pursue innovation
 groundwork for transformation
- Adapt Air Force organization to facilitate transformation and institutionalize cultural change
- Shift from threat- and platform-centric planning and programming to capabilities and effects-based planning and programming via the new Air Force CONOPS
- Work with the other Services and the Joint Staff to develop new joint operating concepts as directed by the Transformation Planning Guidance (TPG)
- Break out of industrial age business processes and embrace information age thinking

(Source: Draft Air Force Transformation Flight Plan)



Using Overarching Goals to Drive

- Everything we do and dollars we spend must be measured in terms of meeting availability and cost goals
 - 20% increase in aircraft availability within the next three years
 - Zero real O&S cost growth over the FY04-09 FYDP
 - Subordinate goals must tie to overall targets
- Everyone in AF logistics must be held accountable for meeting their share of the goals
 - Rewards must be tied to goal achievement
- Keep it simple and direct

Bring the team together—unleash the Integrity - spower Excellence

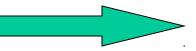


Future AF Supply Chain Environment

TODAY

10-15 Year Transition

Organi TOMORROW,



TSSR/CLS/PBL

Item Management

Business Base & Practices Changing Over

Time

NSN/Commodity focus/skills decreasing

W/S Supply Chain Integration focus/skills increasing

Transition Smartly & Focus on Improved

Custom er

Skill Sets

Facing

Supplier Facing Operation

View

Support
Systems Fully
Linked to
Operational
View



Focusing on the Enterprise

- AF logistics Enterprise processes
 - Planning: Forecasting, Production Planning, Inventory Planning, Maintenance Planning ...
 - Supply: Distribution, Vendor Management, Inventory Balancing ...
 - Maintenance: Production Management, Shop Floor Control ...
 - Transportation: Transportation Management ...
- Across AF organizational boundaries
 - MAJCOMs
 - ALCs
 - Air Staff
 - DoD and vendors
- Considers domain intersections
 - Installations
 - Financial
 - Acquisition
 - Human Resources



Defining an **Enterprise**

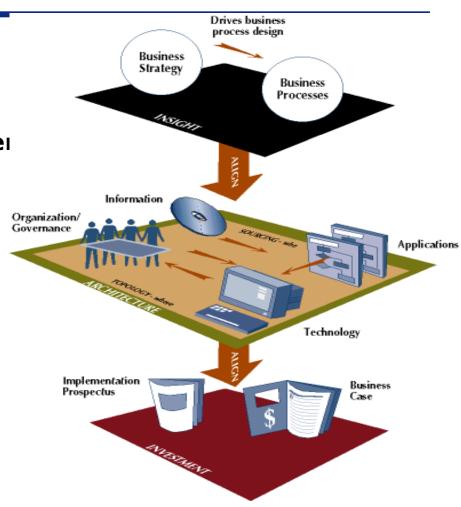
- Architecture (EA)

 The explicit description and documentation of the current and desired relationships among business and management processes and information technology. (OMB)
- Specifically, the LogEA will:
 - Create a single authoritative source that clearly defines the operating and systems models;
 - Provide vehicle to ensure transformation coordination across the AF and outside the AF;
 - Define actionable Transition Plan;
 - Establish a platform for managing change across the Logistics enterprise.
 - Meet future POM requirements (BMMP / BMEA)
 - Baseline for future fiscal decisions
 - **Logistics Enterprise Governance**
 - Undertake Portfolio Management



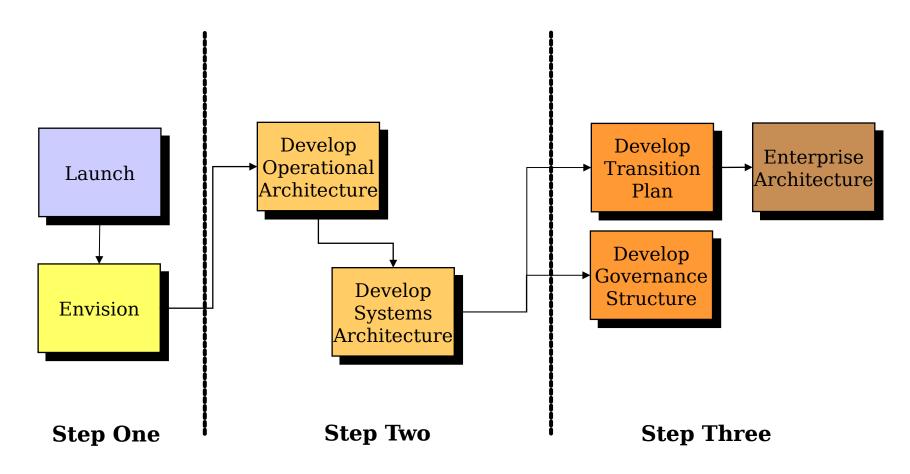
Components of Architecture

- Vision / Strategy
- Operational Architecture (OA)
 - Policy (Constraints / Requirement
 - Processes (Organization)
 - People (Resources)
- Systems Architecture (SA)
 - Enabling Technology
 - COTS and Legacy
 - Mapping of Systems to OA
 - Data Layer
- Transition Plan (TP)
 - Courses of Action (COAs)
 - Implementation Governance





High-Level Approach



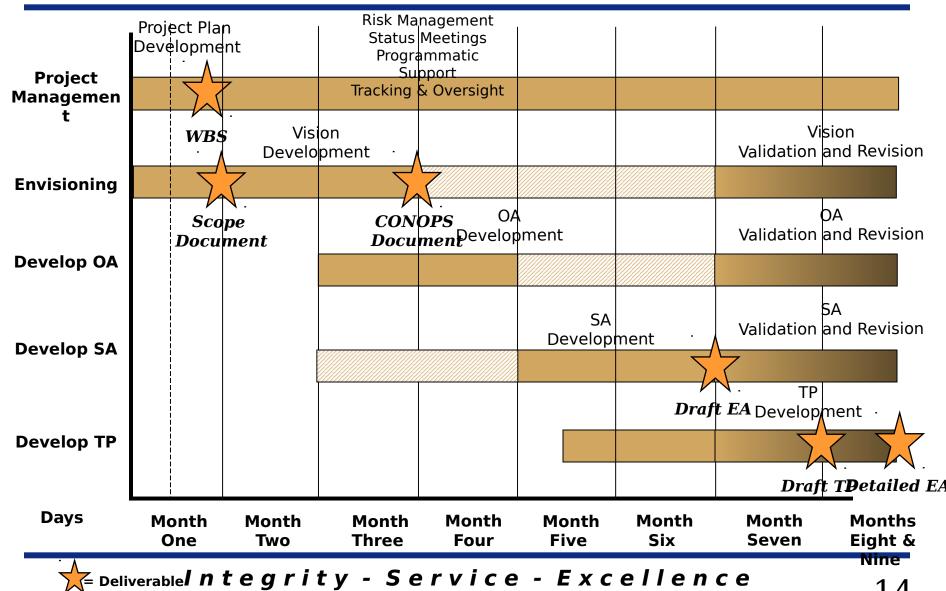


Stakeholders

- Architecture Executive Group
 - SAF/IE, AF/IL, AFMC/CC, ACC/CV, AMC/CV, SAF/AQ, (AF CIO Advisor)
- Architecture Steering Group
 - AF/ILI + ILM, ILG, and ILP, SAF/AQC, AFMC/LG, ACC/LG, AMC/LG (AFPEO Advisor)
- Architecture Team
 - AF/ILI leader plus dedicated SME team from each member of the steering group staff for 60 days or until complete
- System Team
 - AF/ILI & AF/PEO + IL/SPO, system POCs from each functional ILM/G, AFMC:LGN, AMC, ACC & AF/ILC



High-Level Timeline

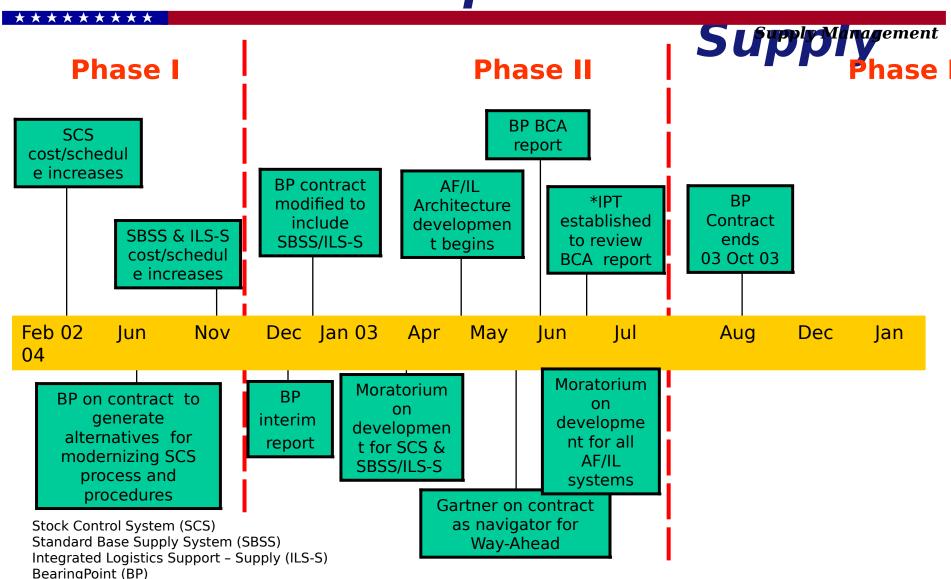




The "Way Ahead" for Supply Systems



Background Enterprise Solution -





BP Initial Phase II Study

- Identified and defined seven (7) alternative approaches
 - Status Quo
 - Modernization
 - Modernization with EAI
 - Custom Development

- Package Based
- ERP Backbone
- ERP

- Preliminary evaluation and screening of alternatives
 - Functional Capabilities
 - Enterprise Integration
 - Systems / Application Integration
 - Other Mandates
- Narrowed to four alternatives
 - Modernization with EAI
 - Package Based
 - ERP Backbone
 - ERP



Business Case Analysis Findings: Summary

Factor	Analysis Category	Weighted	Weighted Points Achieved			
Weighted Points		Points Available	Modemize with EAI	Package Based	ERP Backbone	ERP
30	Functional Capabilities	15	11.7	13.0	13.3	11.3
	Functional Effectiveness	15	8.3	9.3	11.7	10.7
25	Enterprise Integration	10	6.5	6.8	7.8	8.5
	System/Application Integration	7.5	4.4	5.6	5.8	6.2
	Other, Federal, DoD and AF Mandates	7.5	4.2	5.4	6.1	6.5
15	Process	5	2.8	2.2	2.2	2.2
	Organizational Structure	5	3.5	2.8	2.4	2.4
	Workforce	5	3.1	2.4	2.0	2.0
15	Technical Demands	3	1.8	2.0	2.7	2.8
	Organizational Environment	3	2.4	1.6	1.7	1.7
	Schedule/Accuracy Sensitivity	3	1.5	1.0	1.5	1.5
	Budget/Cost Accuracy and Sensitivity	3	2.2	1.8	1.8	2.2
	Functional Performance	3	2.3	2	2	2.1
15	Retum on Investment	10	0.0	0.0	2.0	2.0
	Total Cost of Ownership	5	2.0	3.0	4.0	5.0
100	Total Weighted Points Achieved		56.7	58.9	67	67.1

BP Recommendation: ERP or ERP-BB



BCA Findings: Benefit / Cost Analysis

Lifecycle Cost Estimate (CY\$)

	Cost to FOC +10						
Cost Element	Modernize with EAI	Package Based	ERP Backbone	ERP			
Application SW License	\$0	\$38,016,000	\$31,680,000	\$28,800,000			
Other SW License (EAI, etc.)	\$8,743,680	\$8,743,680	\$6,048,000	\$6,048,000			
COTS Software Maintenance	\$25,269,235	\$103,338,893	\$76,965,120	\$71,089,920			
SW Development	\$208,371,974	\$0	\$0	\$0			
Functional Support	\$12,000,000	\$12,000,000	\$9,000,000	\$9,000,000			
Implementation	\$33,000,000	\$65,600,000	\$50,142,857	\$50,142,857			
Change Management	\$10,890,000	\$34,636,800	\$29,784,857	\$33,094,286			
Training	\$11,220,000	\$22,304,000	\$17,048,571	\$17,048,571			
Sustainment	\$457,124,804	\$117,599,804	\$88,342,476	\$88,342,476			
Program Management	\$304,398,000	\$163,272,000	\$141,783,000	\$141,783,000			
Professional Services	\$7,800,000	\$78,000,000	\$63,000,000	\$60,000,000			
Version upgrades (Major/ Minor)	\$0	\$36,762,240	\$29,092,886	\$30,085,714			
DISA Support for Operations	\$352,952,047	\$280,110,360	\$189,869,512	\$189,869,512			
Total	\$1,431,769,740	\$960,383,777	\$732,757,279	\$725,304,336			



IPT Activities

- Analyzed the BP BCA 27 June 03 report and reconciled it to the agreed upon framework
- Challenged BP's assumptions and adjusted evaluation criteria scores and weighting
- Corrected errors in cost estimates and scope of study
 - Proposed definition of ERP doesn't match analysis
 - Scope of study doesn't match between pictorial representation, narrative in the study, and discussion with BP
- Identified risks, AF action items, and critical issues to be addressed moving forward



Overall Conclusions

- ERP based alternatives demonstrated overall strongest performance. Best for:
 - Satisfying functional needs and positively impacting supply measures of effectiveness
 - Integration of data and processes
 - Leveraging leading edge technology
 - Supporting 'supply chain' strategic goals and objectives
 - Balancing modernization, process improvements, organizational impacts, and program risk
 - Managing life cycle costs and achieving a return on investment
- No clear difference between ERP and ERP Backbone options
- Sensitivity analysis ERP Backbone preferred solution
- Effort and cost may be under-estimated
- Bottom Line . . .AF/IL should accept BP report as modified as starting point for Implementation of an AF Enterprise Solution



ERP Functional Capabilities Broader than Supply

Management

Web Portal

WebMail / Workflow

Order Management/CRM

Purchasin g **Supply Management Domains**

Asset Movement Inventory / Warehous e

Asset Planning Repair & Maintenan ce

Transportation

Funds & Working Capital

Equipment Management

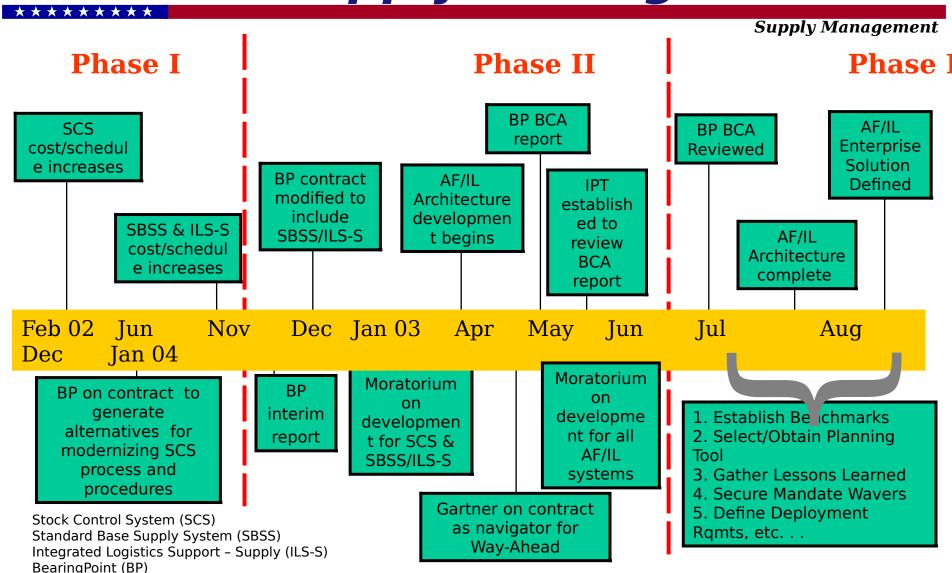
Human Resources

Database & Document Storage

Integrity - Service - Excellence



Enterprise Solution - Supply Moving Forward





Summary

- Lots of changes are in the making.....
 - The world as we know it will change
 - And it will be for the better